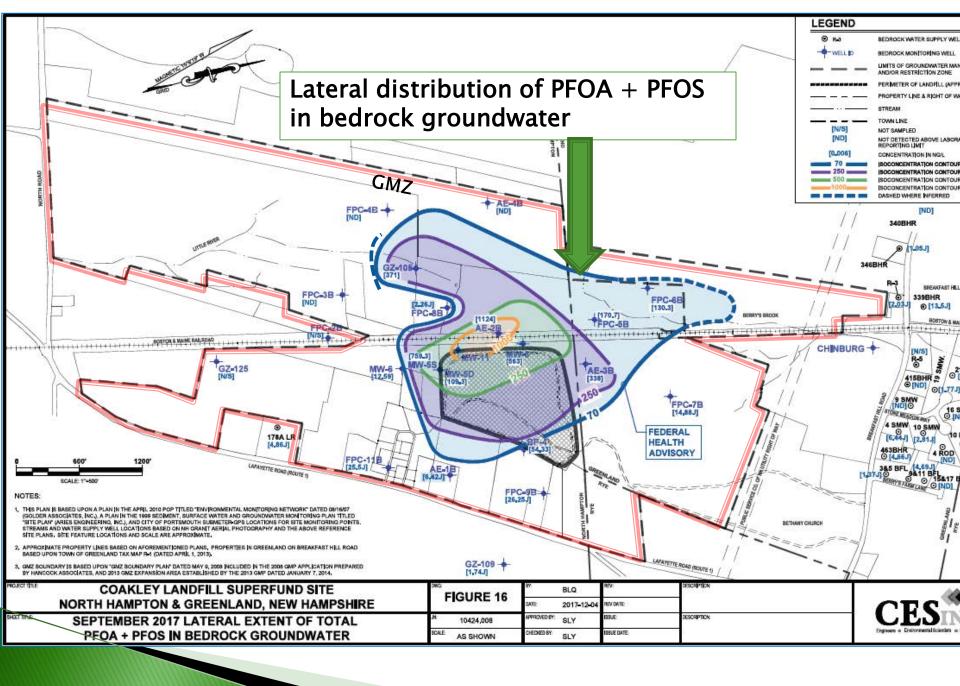
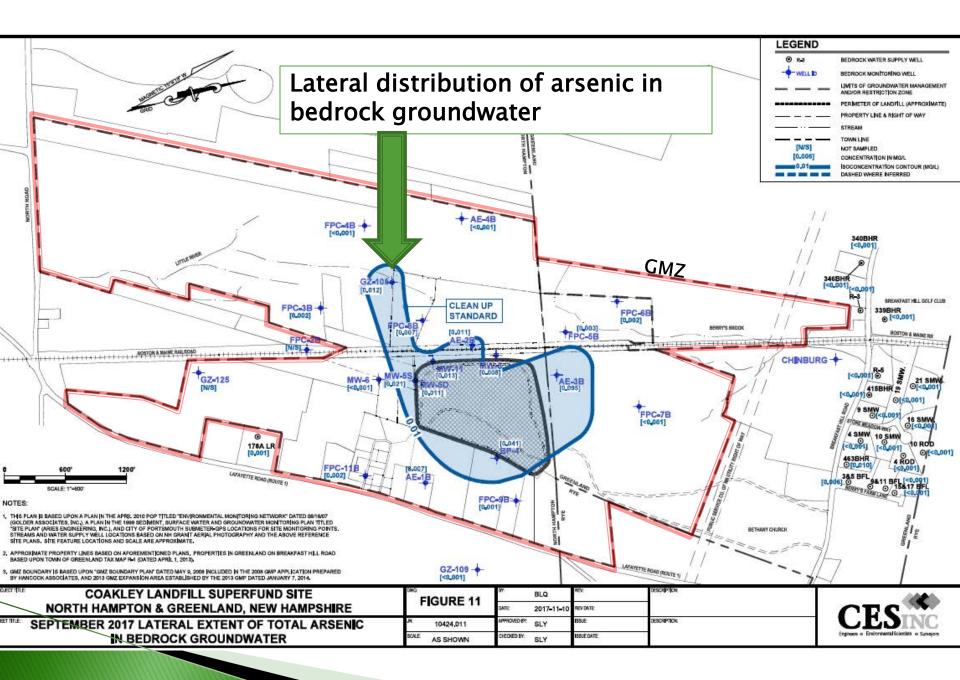
Coakley Landfill Area

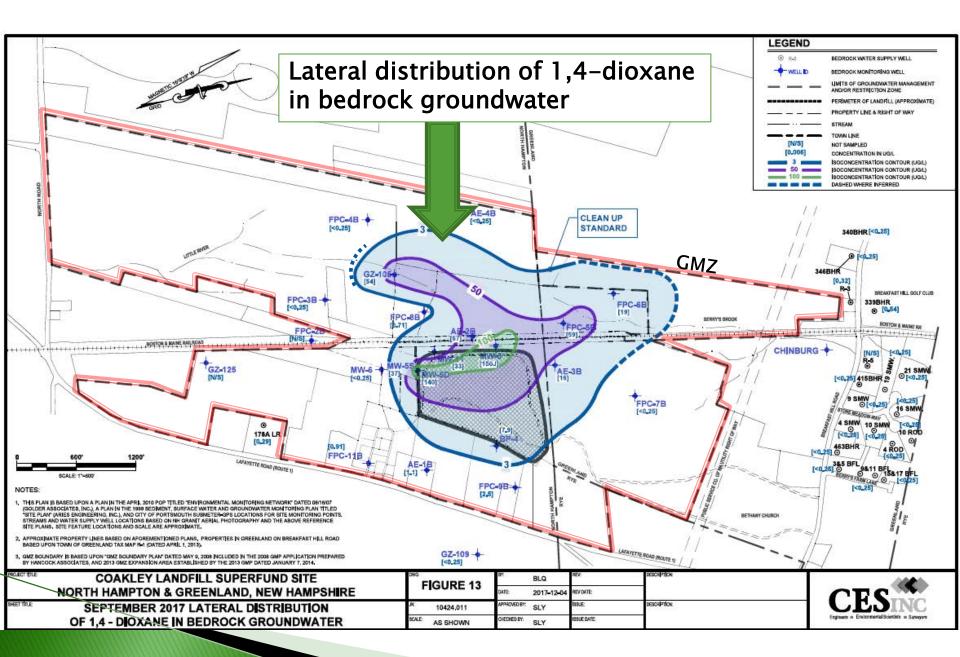


Groundwater Management Permit (GMP)

- Used to manage contaminated groundwater at over 800 sites in NH
- Managing contaminant plumes following:
 - source removal,
 - treatment or
 - containment
- Establish a groundwater management zone (GMZ) by defining property boundaries within which groundwater exceeds standards



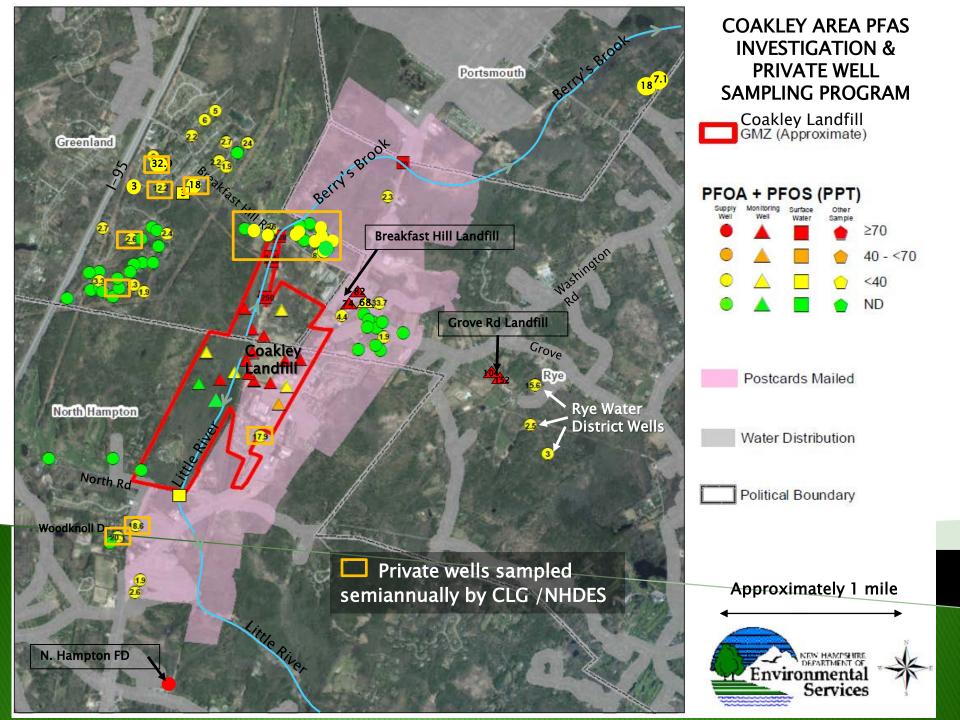


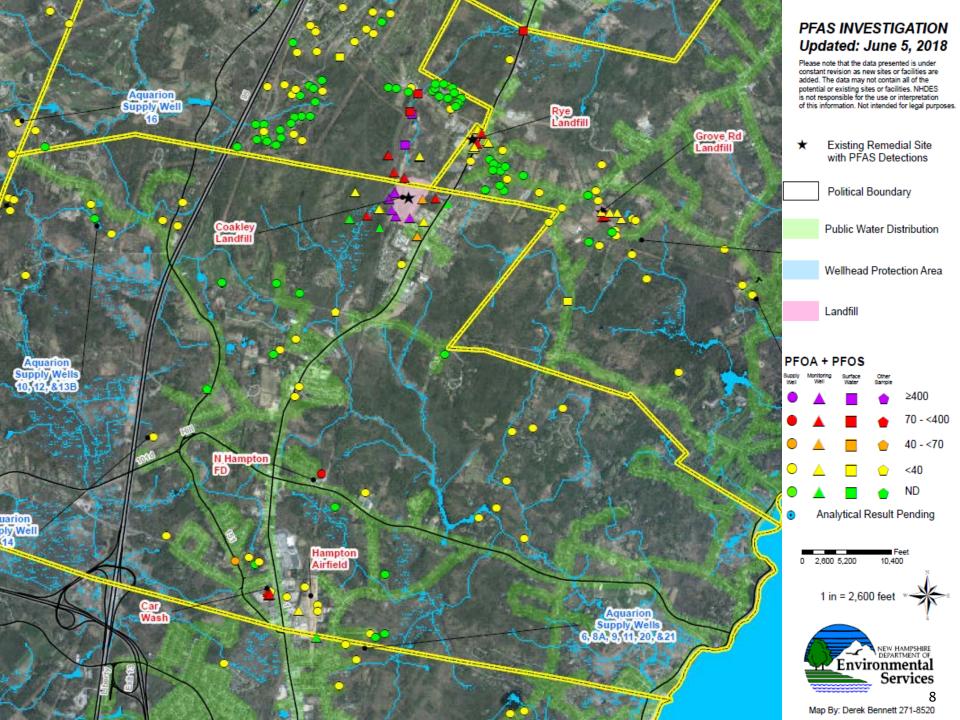


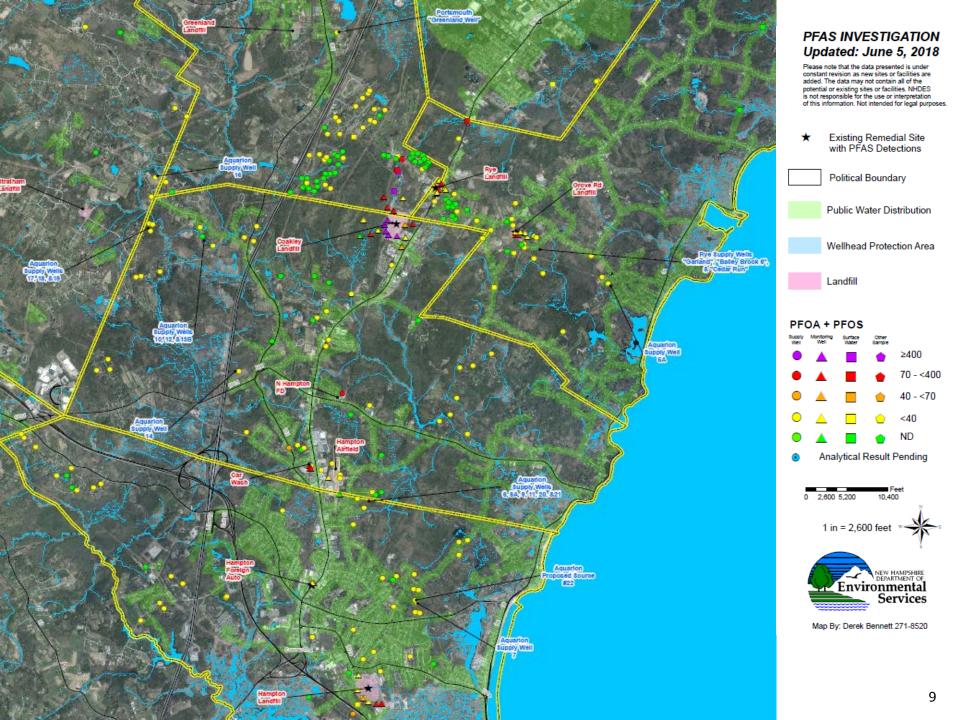
GMP Compliance Criteria

- No violation of standards outside the GMZ
- If a violation identified, permittee shall submit corrective action plan to agencies
- Upon approval, permittee executes corrective action plan









Coakley Landfill Contact Information

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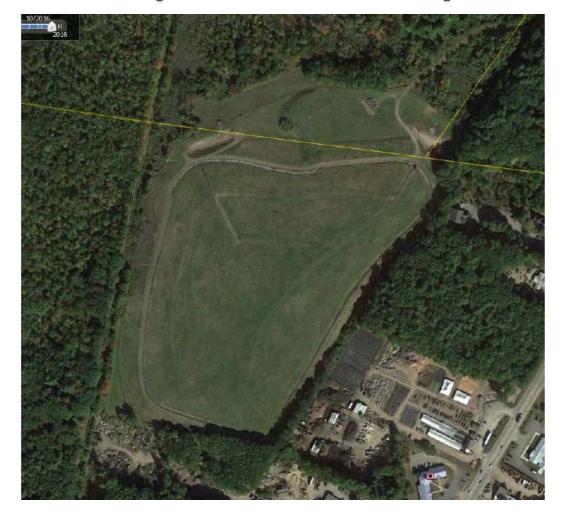
Tel. (603) 271-6778

E-mail: <u>Andrew.Hoffman@des.nh.gov</u>





Coakley Landfill Update







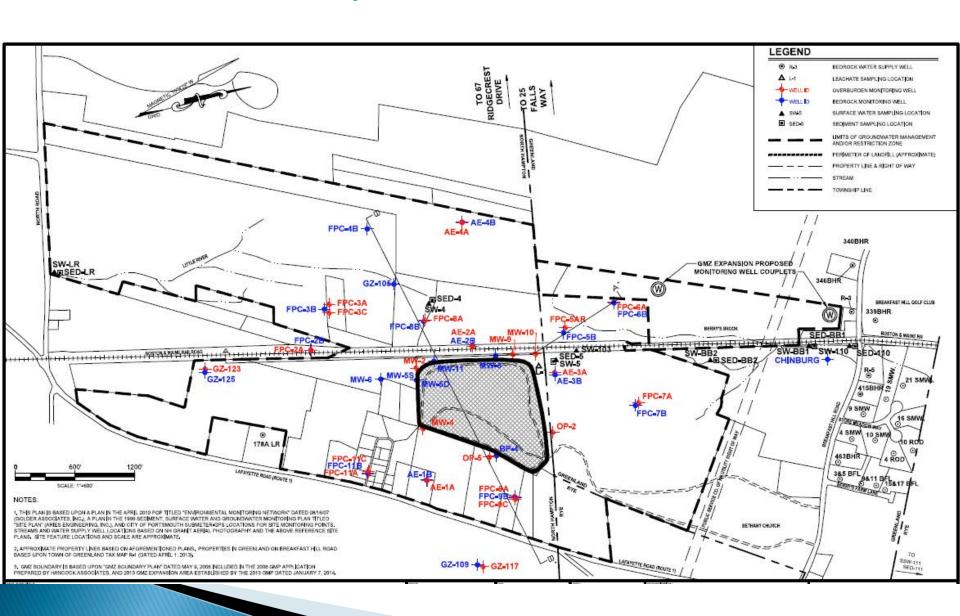
CLG Open House June 7, 2018

1

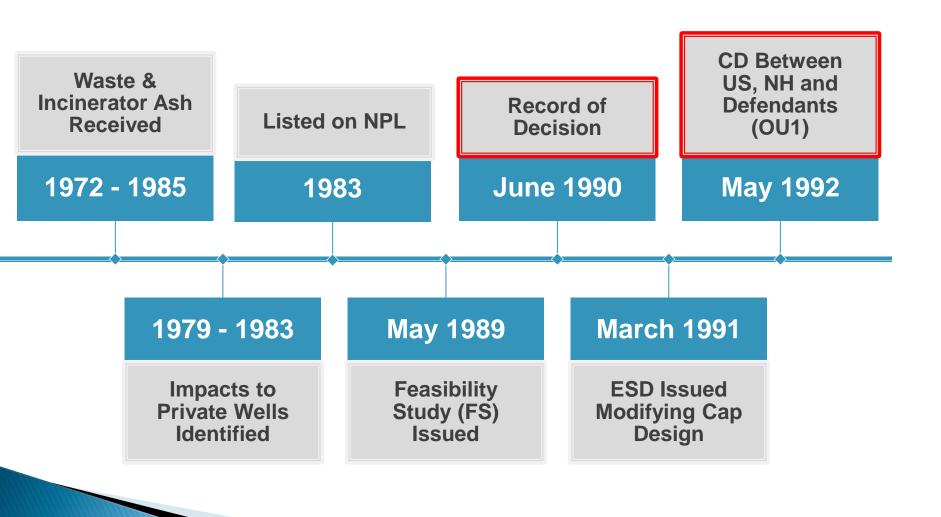
Coakley Landfill Area



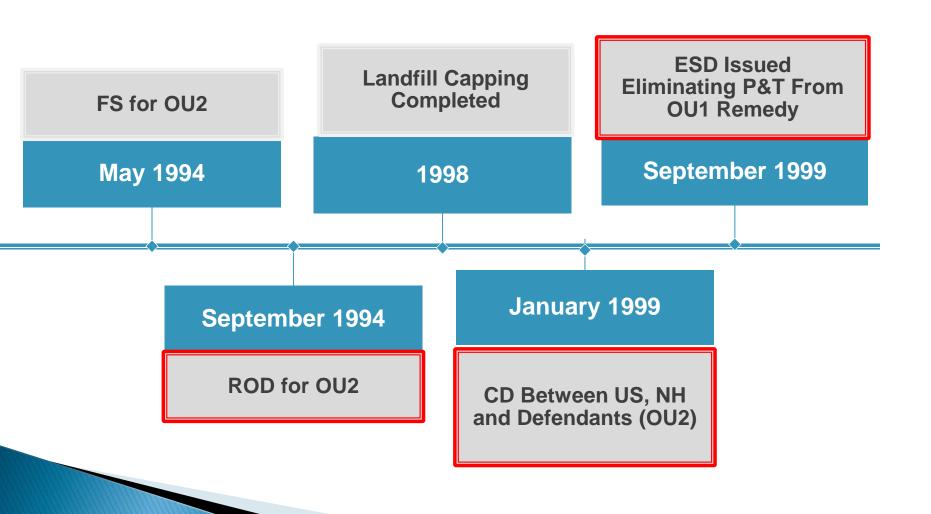
Coakley Landfill Site Plan



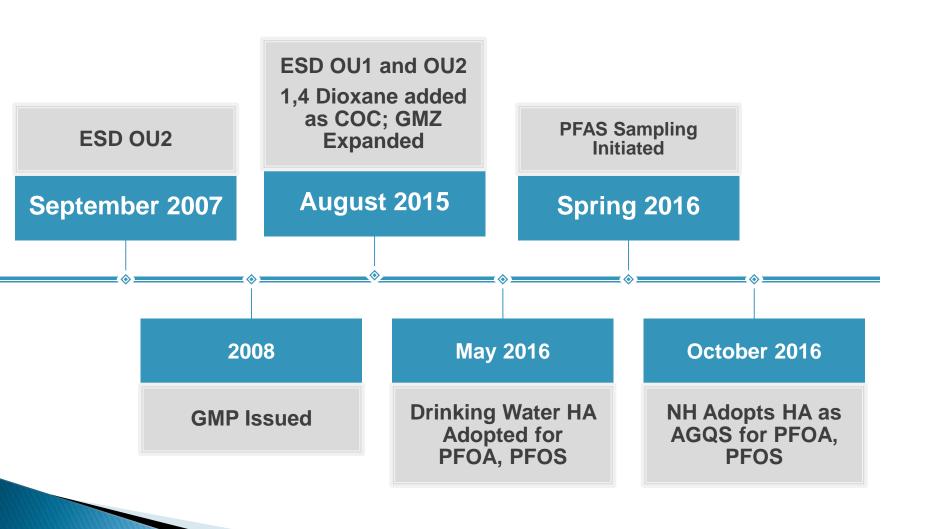
Background 1972 to 1994



Background 1994 to 2015



Background 1994 to 2015



USEPA Health Advisory (HA)

- HAs established for PFOA and PFOS = 70 ppt in *drinking water*.
- HAs provide information on contaminants that can cause human health effects and are known or anticipated to occur in drinking water.
- EPA's HA for PFOA and PFOS offers a margin of protection throughout a person's life from adverse health effects resulting from exposure to PFOA and PFOS in drinking water.



Screening Levels

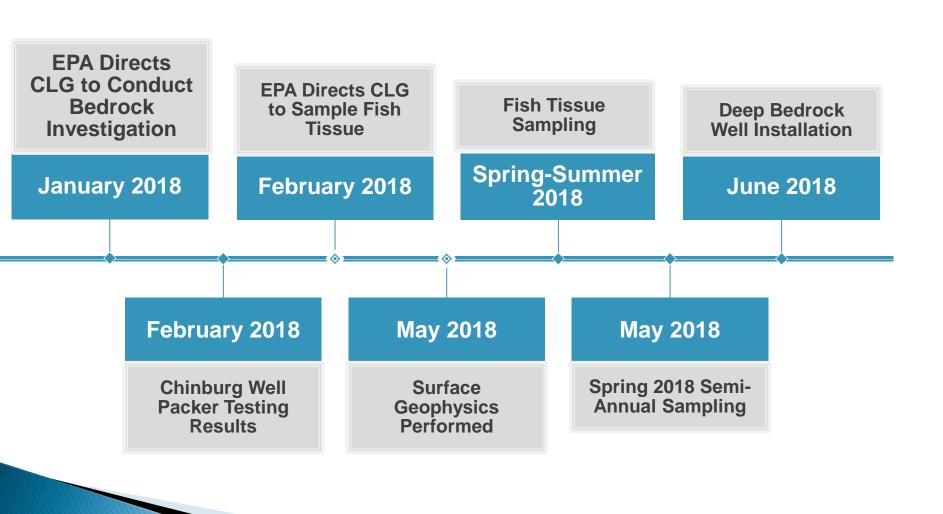


- □ January 2017 EPA calculated risk-based Screening Levels (SLs) for *incidental ingestion* of surface water and sediment assuming exposure durations of 120 (conservative) and 45 days/yr (realistic) for PFOA, PFOS and PFBS
- November 2017 EPA calculated risk-based SLs for standard recreational fish consumption rates for a child for PFOA, PFOS and PFBS
 - Most conservative exposure assumption for child
 - □ 6,000 mg/day, 350 days/year, 6 years (about 74 ounces per year)

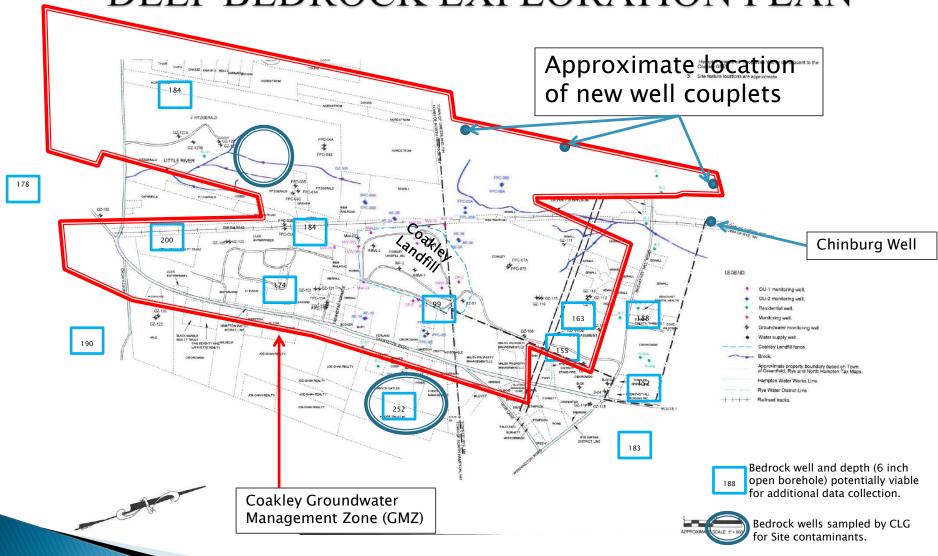
Overview of SLs for Recreational Ingestion of Surface Water, Sediment & Fish Tissue

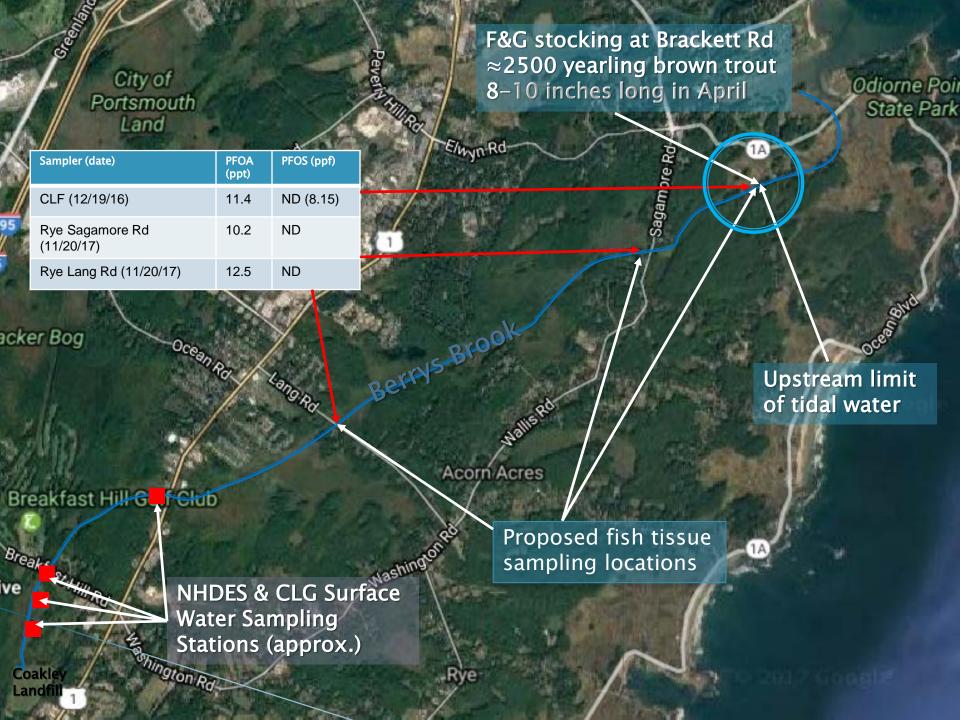
		Risk-Base	ed Screenir	na I evels	
		Trion Buot	54 001001111	19 201010	
	Surface Water (ng/L)		Sediment (mg/kg)		Fish (mg/kg)
Assumptions	120 day/yr	45 day/yr	120 day/yr	45 day/yr	6 grams/day
PFOS/PFOA	760	2,030	0.369	0.98	0.00521
PFBS	760,000	2,030,000	369	983	5.21

Ongoing and Upcoming Activities



COAKLEY PHASE I DEEP BEDROCK EXPLORATION PLAN





Coakley Landfill Contact Information

www.epa.gov/superfund/coakley

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